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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,078	03/31/2004	Patrick Hallinan	066949-0001	4644
7590 04/03/2009 Dykema Gossett, PLLC			EXAMINER	
Suite 300 West 1300 I Street, N.W. Washington, DC 20005-3306			TORRES, ALICIA M	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/813.078 HALLINAN ET AL. Office Action Summary Examiner Art Unit ALICIA M. TORRES 3671 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 13 November 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-3.5.7.10.16.18-20 and 22-37 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-3,5,7,10,16,18-20 and 22-37 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _______

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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Claim Objections

Claims 7, 10 are objected to because of the following informalities: the punctuation
ending a paragraph should be consistent throughout a claim, for instance all ending punctuation
should be either --:- or ---. Appropriate correction is required.

Claim 10 is objected to because of the following informalities: in line 6, "and" should be deleted. Appropriate correction is required.

Claim 10 is objected to because of the following informalities: in line 15, "object," should be changed to -object, and—. Appropriate correction is required.

DETAILED ACTION

Double Patenting

2. Applicant is advised that should claims 22, 27 be found allowable, claim 28, 30 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- Claim 34 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as

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the invention. Claim 34 recites the limitation "said drive pulley" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
 obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1, 2, 7, 10, 20, 22-24, 27-33, 36 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fridley et al. 4,326,570 in view of Gates 5,065,566.

Fridley et al. disclose a trimming system for a user-operated ground vehicle capable of performing mowing and trimming operations, said system comprising:

drive means (22) operatively coupled to a drive system (via 23) of the vehicle (1) having said trimming system (16, 27) mounted thereon;

a trimming unit (27) operatively coupled to said drive means (22) for performing edge trimming operations, and

a guide wheel (15) mounted to a vehicle frame (1) adjacent said trimming unit (27) for maintaining said trimming unit at a predetermined distance from a stationary object (30) during performance of said edge trimming operations, said guide wheel (15) being mounted on a resiliently biased bracket (6), said bracket (6) being fixedly mounted (at 7) to the vehicle frame (1) and resiliently biased by a spring (8) mounted between the vehicle frame (1) and said bracket

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(6) for allowing material and spring biased deflection (see column 5, lines 34-50) of said bracket

(6) by a predetermined distance under the bias of said spring relative to said trimming unit (27)

and the vehicle frame (1) upon contact of said guide wheel (15) with the stationary object (15);

wherein the drive means (22) comprise at least one driven pulley (26) operatively coupled to a drive pulley (25) of the vehicle (1) for driving the trimming unit (27):

wherein said bracket (6) permits the predetermined deflection of said guide wheel (15) to thus enable a user to operate the vehicle (1) at full speed away from and in the vicinity of stationary objects (30) without requiring reduction of the speed in the vicinity of stationary objects.

However, Fridley et al. fail to disclose wherein the trimming unit including a spindle having at least one trimming wire for enabling performance of the edge trimming operations during rotation of the spindle;

wherein said trimming unit being coupled to the vehicle by a threaded shaft to enable height adjustment of said trimming unit by rotation of said trimming unit relative to said shaft.

Gates discloses a similar trimming system wherein the trimming unit including a spindle (90) having at least one trimming wire (70, 72) enabling performance of the edge trimming operations during rotation of the spindle (90);

wherein said trimming unit (shown in Figure 5) being coupled to the vehicle (at 10) by a threaded shaft (92) to enable height adjustment of said trimming unit by rotation of said trimming unit relative to said shaft (92).

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the height adjustment device of Gates on the trimming system of Fridley et al. in order to achieve the predictable result of enabling a cutting height adjustment.

 Claims 5, 26, 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fridley et al. and Gates as applied to claim 1 above, and further in view of Gustafson et al. 6,722,284.

The device is disclosed as applied to claim 1 above. However, while Fridley et al. disclose a guide wheel, the combination fails to specifically disclose wherein the guide wheel is made of nylon.

Gustafson et al. discloses a guide wheel for a steerable robot. Gustafson et al. teaches that nylon guide rollers (301-304) are ideal because friction is reduced and wear between the guide wheels and objects is reduced (column 4, lines 45-52).

In light of the teaching of Gustafson et al., it would have been obvious to one having ordinary skill in the art at the time the invention was made to include nylon guides on Fridley et al. and Gates' trimming system in order to reduce wear and friction.

 Claims 3, 16, 18, 19, 25 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fridley et al. in view of Bird 5,167,108, as cited by the applicant.

Fridley et al. disclose a mowing and trimming system comprising:

a drive unit (22) including at least one drive (25) and driven pulley (26), and a guide wheel (15) mounted on a driven axle (13) of said trimming unit (27) for maintaining said trimming unit (27) at a predetermined distance from a stationary object (30) during performance

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of said edge trimming operations, wherein said guide wheel (30) being mounted on a vehicle (1) having said mowing and trimming system mounted thereon.

However, Fridley et al. fail to disclose wherein said drive pulley being operatively coupled to said driven pulley to at least one of selectively and simultaneously drive a mowing unit for performing mowing operations and a trimming unit for performing edge trimming operations;

said guide wheel being mounted by a threaded shaft to enable height adjustment of said guide wheel by rotation of said guide wheel relative to said shaft.

Bird discloses a similar trimming system wherein the drive pulley (34) being operatively coupled to said driven pulley (36) to at least one of selectively (by actuation of lever 20) and simultaneously drive a mowing unit (12) for performing mowing operations and a trimming unit (15) for performing edge trimming operations.

Gates discloses a threaded shaft (92) to enable height adjustment of the guide device (110) and trimming unit (see Figure 5) by rotation of the shoe (118) relative to the shaft (92).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the drive means of Bird on the trimmer system of Fridley et al. in order to transfer drive from the mower device to the trimmer device.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the height adjustment device of Gates on the trimming system of Fridley et al. in order to achieve the predictable result of enabling a cutting height adjustment.

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Response to Arguments

9. Applicant's arguments with respect to the claims have been considered but are moot in

view of the new ground(s) of rejection.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Alicia M. Torres whose telephone number is 571-272-6997. The

examiner can normally be reached Monday through Friday from 7:00 a.m. - 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thomas B. Will, can be reached at 571-272-6998.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the group receptionist whose telephone number is 571-272-3600. The fax

number for this Group is 571-273-8300.

/Alicia M Torres/

Patent Examiner, Art Unit 3671

March 30, 2009